ORBITS EDGE™

Taking the EDGE to Space

Product Deck

April 2026

Tech Specs

Company:	OrbitsEdge, Inc.
Company Size:	6
CAGE Code:	9UH02
DUNS Number:	117418158
NIACS:	334220, 334511, 541715
SAM Registration:	Current
Company Clearance Level:	Not at Present
Veteran Owned Small Business:	Yes
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Technical POC:	Rick Ward
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ORBITSEDGE PRODUCT SOLUTIONS

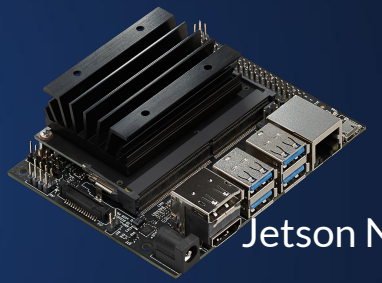
Edge Compute Power Classes

All classes feature robust radiation shielding, integrated thermal management and radiation mitigation software as well as Input/Output interfaces suited to customer needs.

Snapdragon 8s Gen3

AI agents available for all classes

- Edge10 10W
  - On board compute for narrow AI capabilities, analytics, proximity operations and more responsive satellites in a cubesat form factor
  - 1U (8X8X12cm), less than 1kg
  - 15 TOPS of compute
- Edge100 Around 100W
  - On board compute for specific AI capabilities, EO analytics, proximity operations, robotics and more responsive satellites in a smallsat form factor
  - 2U, less than 4kg
  - 700 TOPS



Jetson Nano

Up Core

FUTURE PRODUCT SOLUTIONS

Edge Compute Power Classes

All classes feature robust radiation shielding, integrated thermal management and radiation mitigation software as well as Input/Output interfaces suited to customer needs.

AI agents available for all classes

- Edge1000 ~100W
  - Robust compute for local data consumption, semi-autonomy and analytics
  - Intended for CLD deployment
  - 8U, below 12kg

HPE ProLiant EL8000

- Cloud100k ~100KW
  - Cloud Compute platform
  - 10 Full 42U Rack servers, size comparable to a commercial refrigerator, 20,000kg total
  - Individual racks can be deployed to CLDs

HPE 42U Server Rack

ORBITSEDGE PRODUCT SOLUTIONS

Edge Compute Environments

Snapdragon 8s Gen3

HPE ProLiant EL8000

HPE 42U Server Rack

	Edge1	Edge10	Edge100	Edge1000	Cloud10k
Space-Habitat			X	X	
Space-Open	X	X	X	X	X
Terrestrial	X	X	X	X	X
Aquatic	X	X	X	X	X
Nuclear	X	X	X	X	

By creating an enclosure capable of operating in a vacuum, with radiation shielding, we can also operate in other hostile environments on Earth and in space

ORBITSEDGE PRODUCT SOLUTIONS

Turnkey Semi-Autonomy

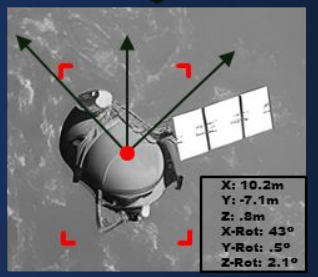
In partnership with Translunar ESI

- Onboard autonomous agents for rendezvous & proximity operations
- Space Situational Awareness

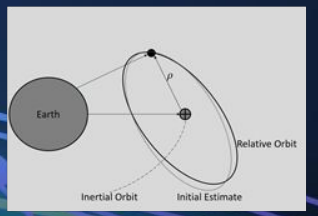
Benefits:

- Enables autonomous, markerless, and real-time operations in space.
- Enhance decision-making, reduce collision risk, and extend lifespan.
- Adaptable/scalable for diverse defense and commercial missions.
- Critical asset in maintaining space superiority, improving satellite operations, and expanding space-based activities.

Image Captured



On-board NN Estimation



Trajectory Estimated & Corrected

ORBITSEDGE PRODUCT SOLUTIONS

Market Outlook for AI in Space

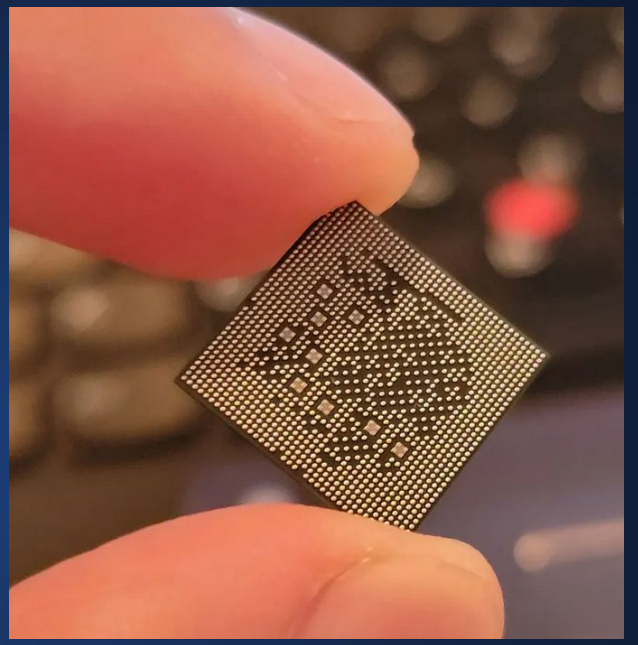
In partnership with Translunar ESI

- $11.7B market by year 2028
- 71/29 market split between products and services
- Major Applications include (2028 projections):
  - Mission planning and design - $3.2B
  - Space Navigation - $3.1B
  - Data Analysis - $2.0B
  - Planetary Identification - $1.3B

AI in Space Exploration Market Report - BCC 2023

ORBITSEDGE PRODUCT SOLUTIONS

EDGE10



Features

- ‘Computer-on-a-Board’ architecture, 1 + 2 Redundancy
- 1U, less than 2kg
- On board compute for narrow AI capabilities, analytics, proximity operations and more responsive satellites in a cubeat form factor
- Baselining the Snapdragon 8s Gen3 processor on a 4nm architecture

We are also exploring hybrid clusters to maximize output with different boards optimized for the different loads customers may require

ORBITSEDGE PRODUCT SOLUTIONS

EDGE100

Features

- ‘Computer-on-a-Board’ architecture, 1 + 1 Redundancy
- Size 2U, less than 4kg
- Can utilize minicomputers, CPUs, GPUs, FPGAs, and TPUs with cameras or other sensors for ‘smart satellites’ with low Size, Weight, and Power (SWaP)
- On board compute for specific AI capabilities, EO analytics, robotics, semi-autonomy and more responsive vehicles in a smallsat form factor
- 4 CPU Cores, 896 GPU Cores, 0.5 Terabyte of storage baseline with Nvidia Jetson family

Jetson Orin AGX

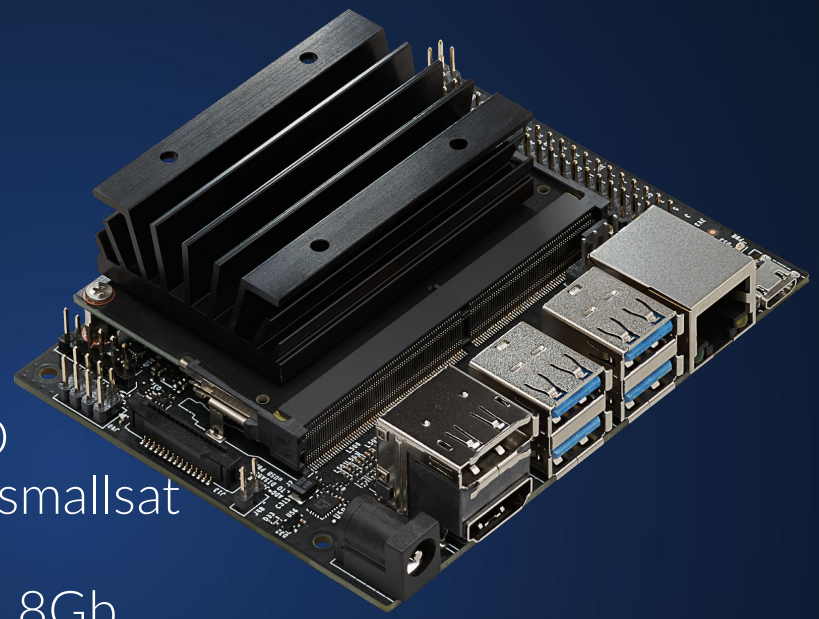
We are also exploring hybrid clusters to maximize output with different boards optimized for the different loads customers may require

ORBITSEDGE PRODUCT SOLUTIONS

EDGE100

7~15 W Jetson Orin Nano

- 'Computer-on-a-Board' architecture, 1 + 1 Redundancy
- Size around 2U, less than 4kg
- Built around the Jetson Orin Nano 8Gb
- On board compute for specific AI capabilities, semi-autonomy, EO analytics, proximity operations and more responsive vehicles in a smallsat form factor
- 6 ARM CPU Cores, 1024 GPU Cores, 32 Tensor Cores, 40 TOPS, 8Gb Memory, 4Tb of storage on primary M.2 slot, with 2 additional M.2 slots
- Networking via 1GBE



Jetson Orin Nano

We are also exploring hybrid clusters to maximize output with different boards optimized for the different loads customers may require

ORBITSEDGE PRODUCT SOLUTIONS

EDGE100

85~120 W Snapdragon Ride Elite SoC

- ‘Computer-on-a-Board’ architecture, 1 + 1 Redundancy
- Size around 2U, less than 6kg
- Built around the Snapdragon Ride Elite SoC
- On board compute for specific AI capabilities, semi-autonomy, EO analytics, proximity operations and more responsive vehicles in a smallsat form factor
- up to 16 TFLOPS of GPU compute power
- up to 1.2 POPS (peta operations per second)
- Networking via 10GBE

We are also exploring hybrid clusters to maximize output with different boards optimized for the different loads customers may require

Snapdragon Ride Elite SoC

ORBITSEDGE BOARD DESIGN

EDGE10 And EDGE100

- Partnership with Embry Riddle University for PCB Design
- Edge10 gains a 5X performance increase on the first iteration
- Edge100 gains a Qualcomm based board with performance above the AGX Orin
- Allows OrbitsEdge to iterate SBCs for space conditions and military products
- Provides access to the autonomous drone market
- Customization for mission requirements
- Rapid integration of new storage, RAM or processors
- OrbitsEdge gains control over vital inputs
- More responsive to customer requirements

Dragonwing IQ8

Dragonwing IQ9

Snapdragon Ride Elite SoC

Snapdragon 8s Gen3

ORBITSEDGE PRODUCT SOLUTIONS

EDGE 10 OR EDGE 100

ProxOps Box

- Built around our compute modules with integrated sensors
- Size based on the given platform
- On board compute for semi-autonomy, EO analytics, proximity operations and more responsive vehicles in a smallsat form factor
- Integrates sensors for your use case, either RGB, FLIR, LIDAR or other sensors
- Features our own AI agent
- Ties into GNC systems to respond to the environment

Snapdragon 8s Gen3

Snapdragon Ride Elite SoC

We are also exploring hybrid clusters to maximize output with different boards optimized for the different loads customers may require

ORBITSEDGE PRODUCT SOLUTIONS

EDGE1000

~1000W Power Consumption

- Cluster architecture, 2N Redundancy
- Size around 8U or comparable to a cigar box, less than 12kg
- Can utilize minicomputers, GPUs and TPUs with cameras or other sensors for ‘smart satellites’ with low Size, Weight, and Power (SWaP)
- On board compute for specific AI capabilities, semi-autonomy and more responsive vehicles in a smallsat form factor
- Possible compute options : Similar to the 10W as clusters, with some mix/match capability

ORBITSEDGE PRODUCT SOLUTIONS

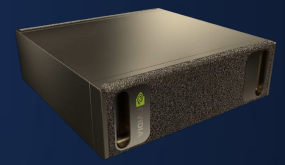
EDGE1000

~1000W Power Consumption

- Microserver, CPU, GPU or TPU ‘cluster of clusters’ option, 2N Redundancy
- Numerous configurations from 8U and 20kg to a Size comparable to a mini fridge, below 100kg
- 120 CPU Cores, 26,880 GPU Cores, 480gb local memory, 10 Terabytes of storage, 1 for 1 Redundancy
- Dense form factor for Analytics, swarm control node, or more
- Can be utilized on board space or surface stations as well as integrated into satellite platforms for ‘Local Cloud’ capabilities
- Possible compute options : Similar to the 10W as clusters, with some mix/match capability

HPE ProLiant EL8000

Nvidia DIGITS



HPE ProLiant DL320 Gen11

ORBITSEDGE BOARD DESIGN

EDGE1 OR EDGE10

Snapdragon 8s Gen3

- Partnership with Embry Riddle University for PCB Design
- Edge1 gains a 3X performance increase on the first iteration
- Edge10 gains a carrier board with radiation hardening
- Allows OrbitsEdge to optimize SBCs for space conditions
- Customization for mission requirements
- Rapid integration of new storage, RAM or processors
- OrbitsEdge gains control over vital inputs
- More responsive to customer requirements

ORBITSEDGE EDGE SIZE COMPARISONS

EDGE10

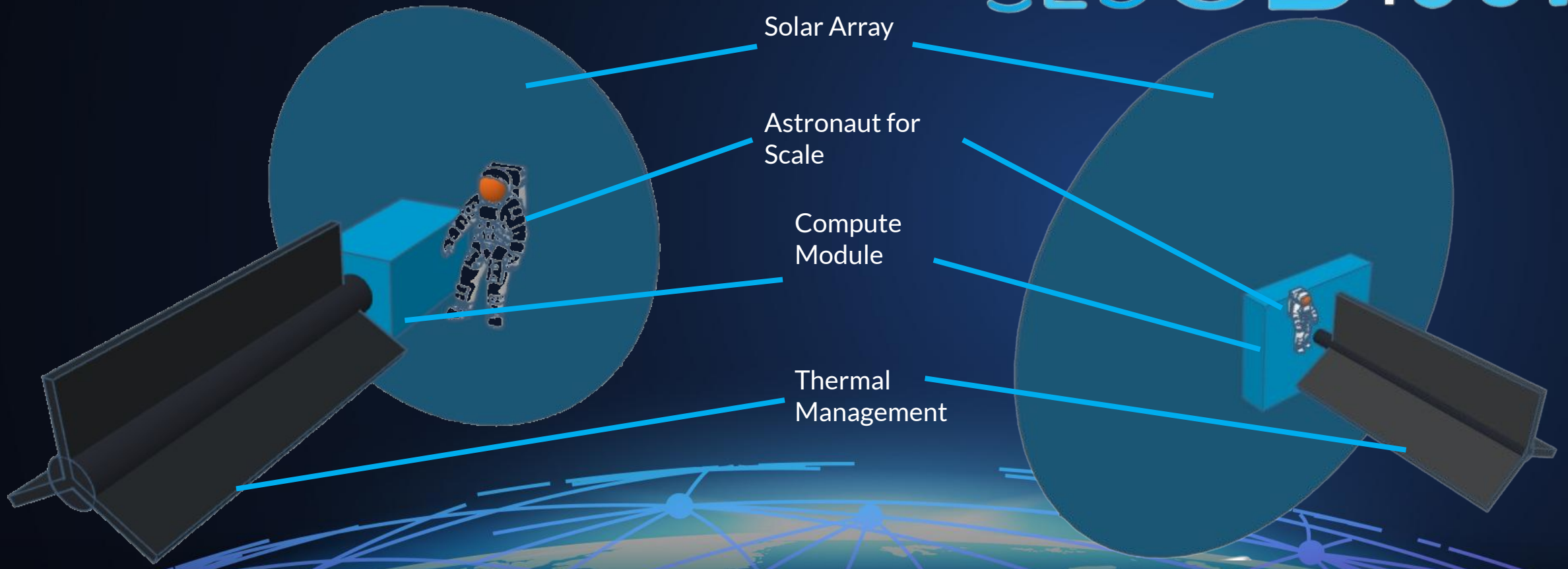
EDGE100

Astronaut for Scale

ORBITSEDGE CLOUD SIZE COMPARISONS

CLOUD10K

CLOUD100K



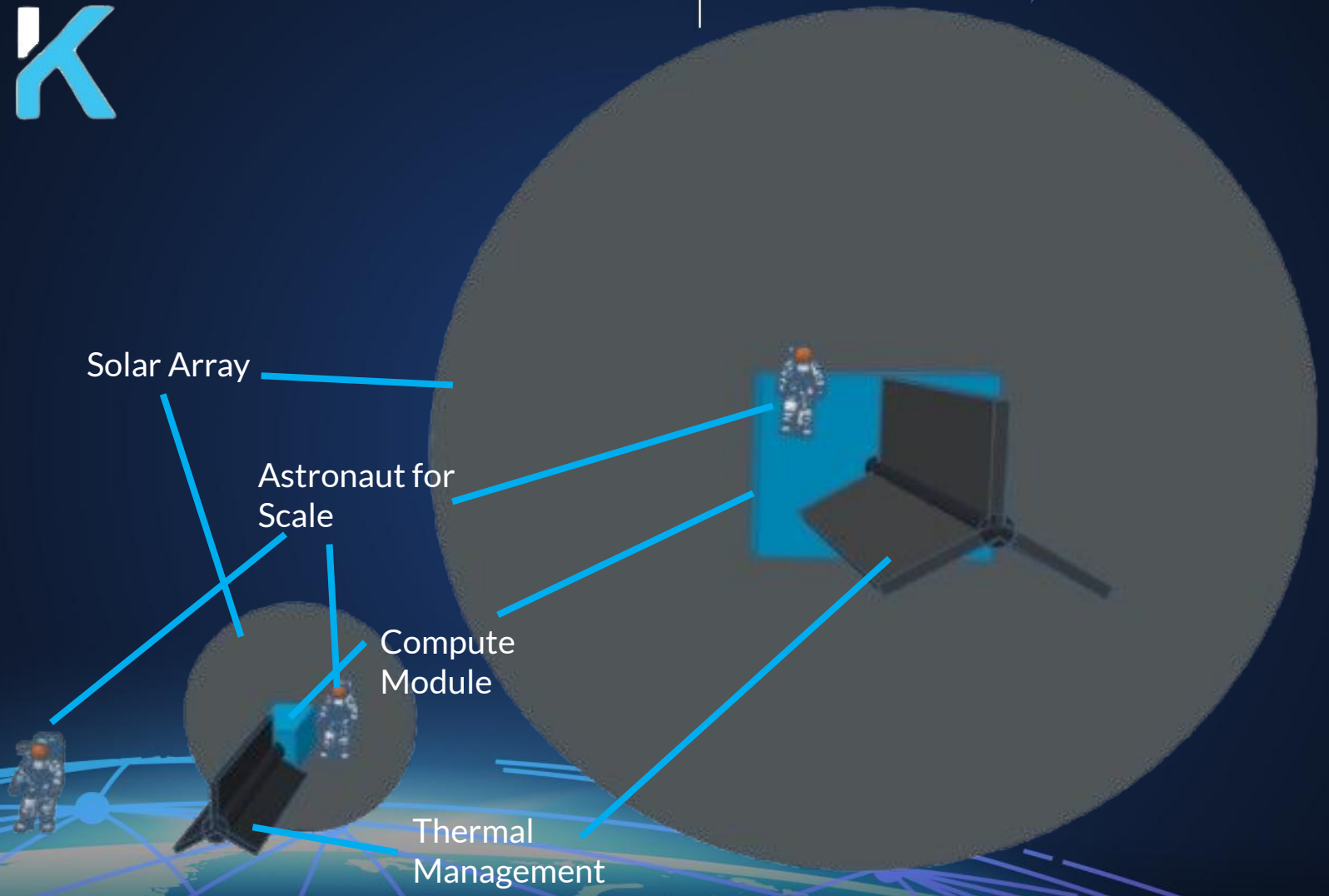
These illustrations are accurate for scaling but do not include all components.

ORBITSEDGE SIZE COMPARISONS

CLOUD100K

CLOUD10K

EDGE100



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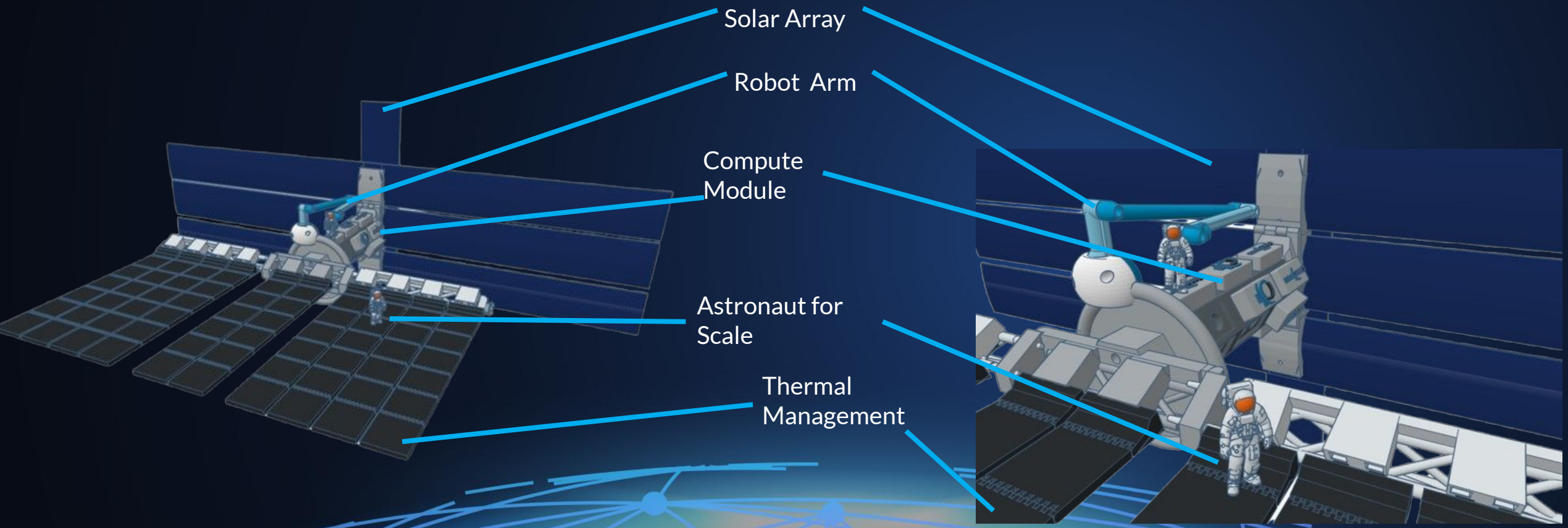
ORBITSEDGE CLOUD SIZE COMPARISONS

CLOUD100K



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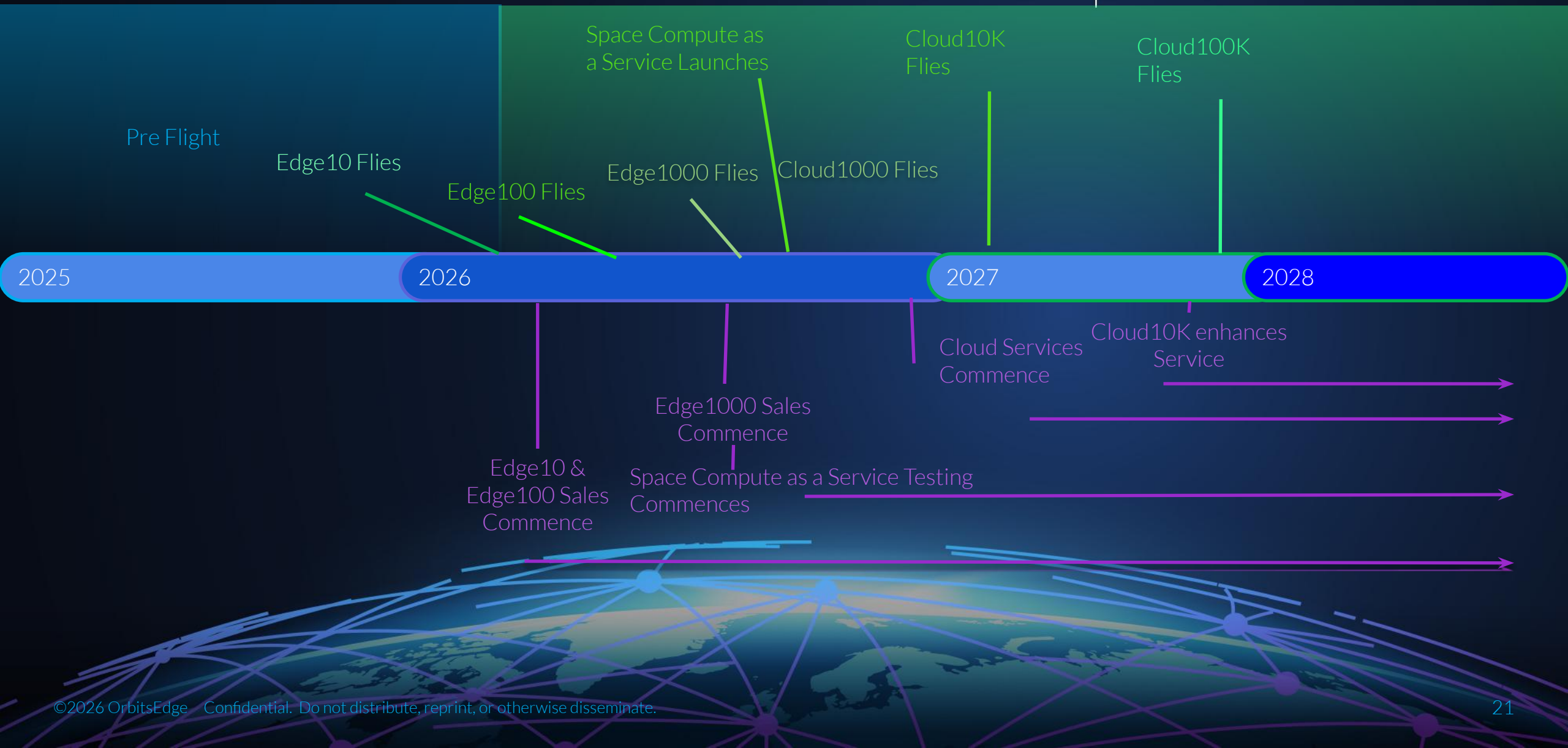
Launch and Deployment Schedule



Taking the EDGE to Space

ORBITS EDGE .com

Thank You

FOR ADDITIONAL INFORMATION

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We look forward taking next steps towards an out-of-this world partnership.